US ERA ARCHIVE DOCUMENT



Funding Green Infrastructure in Your Community

Stephen Marks, City of Hoboken, NJ

Wednesday, July 31, 2013 at Duke Farms in Hillsborough, NJ

Background

Population: 50,005

• 1.26 Square miles

• 77.79% Impervious Coverage

Median Age: 31.2 years old (39.0 y.o.)

Households: 25,041

• Family HH: 37.8% (69.3%)

Owner-occupied: 32.1% (66.9%)

Renter-occupied: 67.9% (33.1%)

H.S. Graduate or higher: 91.5% (87.3%)

B.A. degree or higher: 71.6% (34.6%)

Drove alone: 26.4% (71.6%)

Public Transit: 56.3% (10.6%)

• Walked: 9.7% (3.3%)

Per Capita Income: \$69,085 (\$34,858)

Median HH Income: \$101,782 (\$69,811)

Mean HH Income: \$137,166 (\$93,475)

Housing Tenure/2005 or later: 58.7% (29.1%)

• Median HH Value: \$572,900

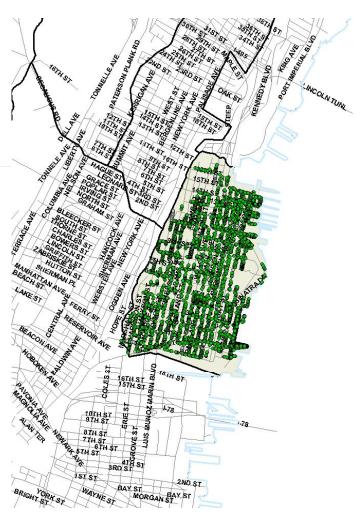
(\$357,000)

Median HH Rent: \$1,640 (\$1,092)

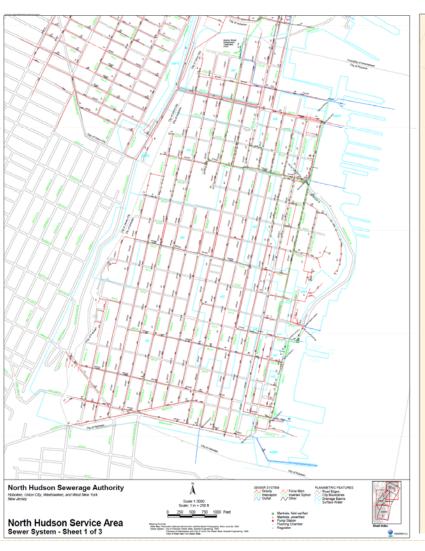


Know Your Community



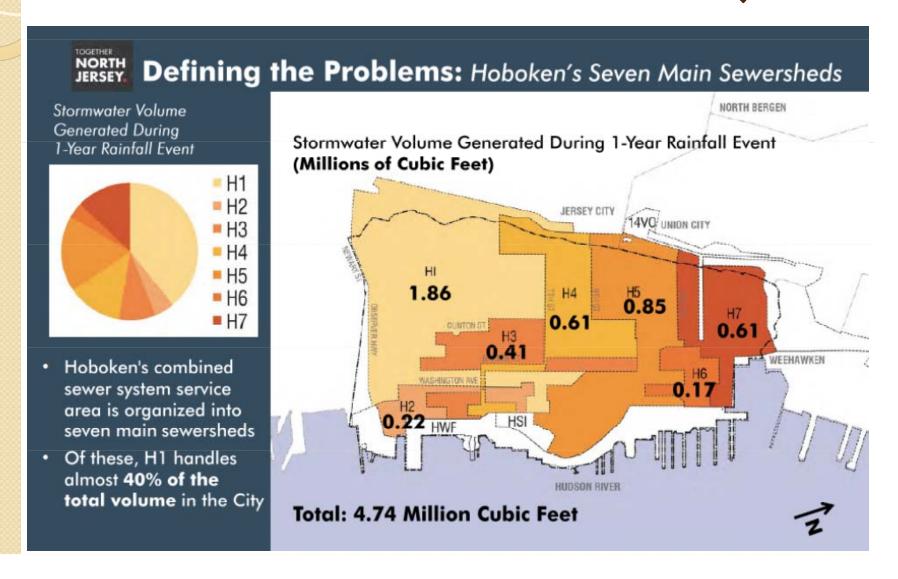


Know Your Infrastructure (Water & Sewer)





Together North Jersey \$90,000 Local Demonstration Project

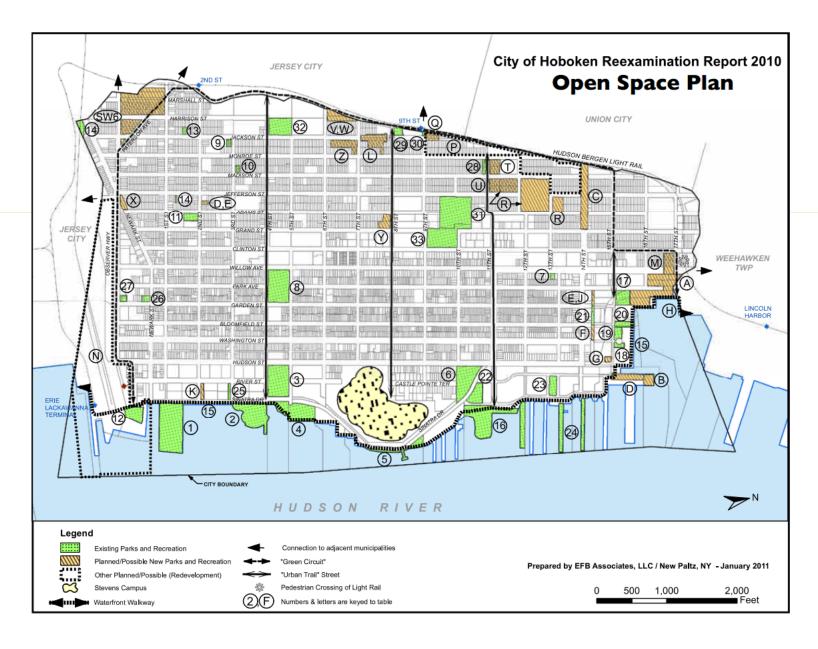


Together North Jersey \$90,000 Local Demonstration Project

Targeting Solutions: Where should we strategically implement Green Infrastructure BMPs?

BMP		Drainage Areas			
	H1	H3	H4	H5	
Basins or Ponds	✓			✓	
Constructed Wetlands	✓			✓	
Reducing Impervious Surfaces	~	~	~	~	
Swales	✓			✓	
Trees Planted Near Pavement	✓	✓	✓	✓	
Rain Gardens		✓	✓	✓	
Subsurface Infiltration or Storage	✓	✓	✓	✓	
Rainwater Harvest & Reuse		✓	✓	✓	
Stormwater Infiltration Planters		✓	✓	✓	
Permeable Pavements		✓	✓	✓	
Green Roofs	✓	✓	✓	✓	
Green Streets		✓	✓	✓	

Hoboken Master Plan 2010



1600 Park Avenue





Southwest Park

- \$3 million grant from the Hudson County Open Space Trust Fund.
- Currently out to bid for professional services to design a park with green infrastructure component.
- Block 12 = 1 acre
- Zoned Industrial
- Flood Hazard Area
- Surrounded by densely populated neighborhood



Pino Property

- Transfer of Development Rights
- 1.05 Acre
- 18 contiguous lots
- Former private Tow Yard
- Located in densely populated neighborhood.
- Zoned Residential
- Adjacent to existing Redevelopment Area
- Property owner can build 64 units "as of right".
- Developer seeks TDR with density bonus to give parcel to city.



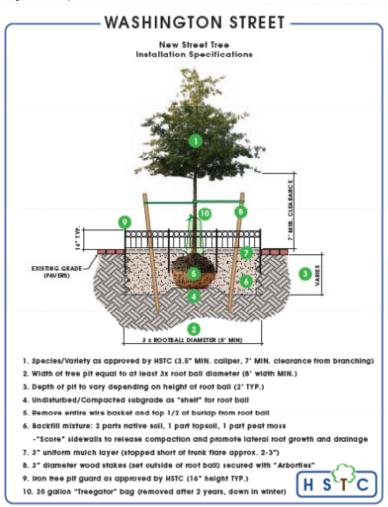
Northwest (Cognis Henkle)

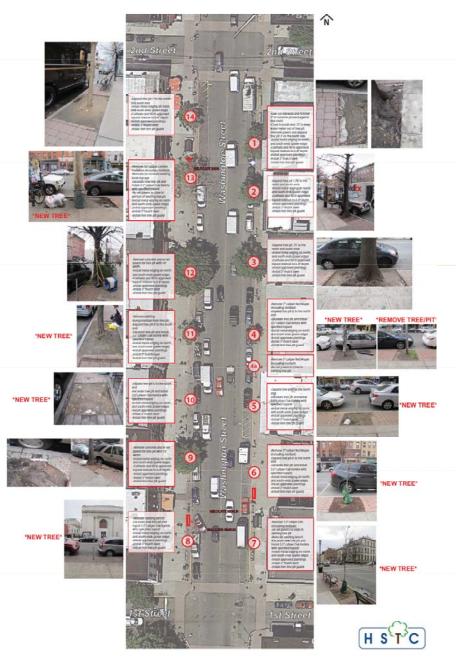
- Approximately 6.5 acres
- 2 whole city blocks ("superblock")
- + 2 half blocks
- Zoned Industrial
- Former chemical company site
- Contaminated in need of remediation
- Located in "flood hazard area"





Hoboken Shade Tree Commission \$35,000



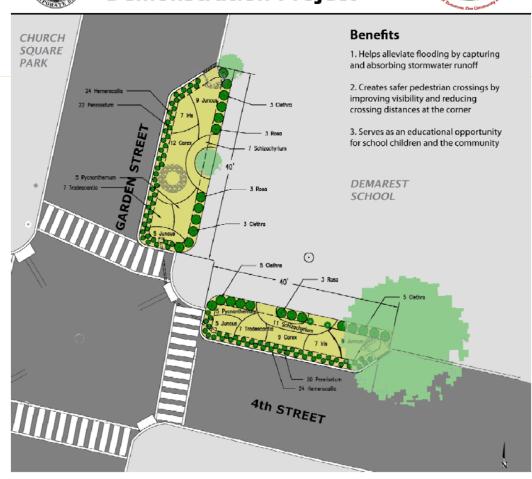


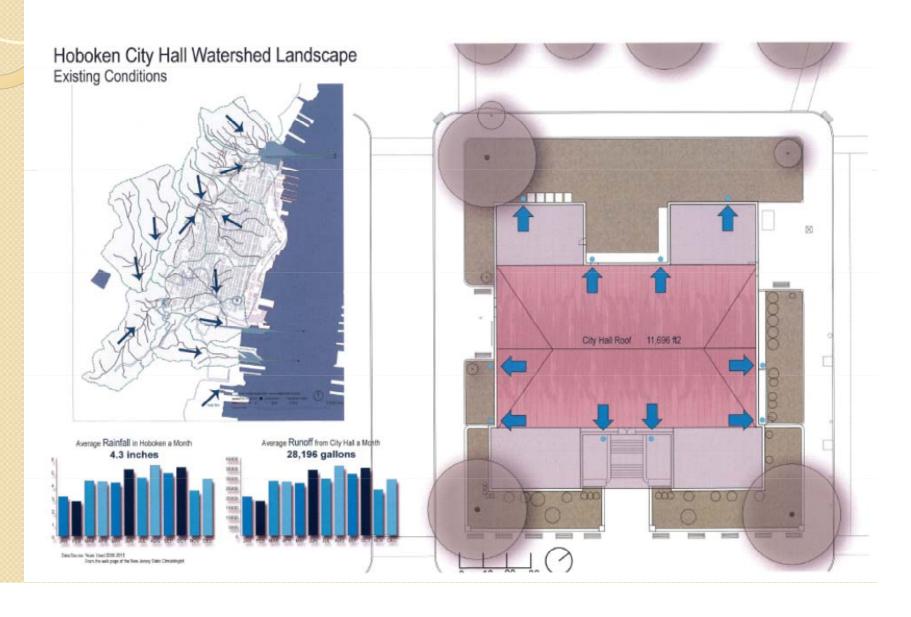
Hoboken Green Team + Sustainable Jersey = \$20,000 for Rain Garden

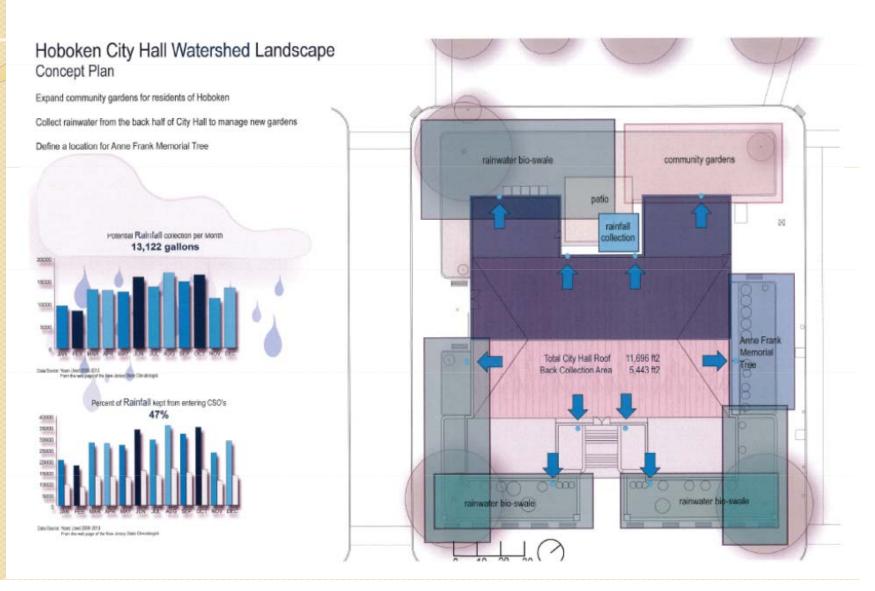


Rain Garden Curb Extension Demonstration Project











Sistern Dimensions

ize: 12' x 16'

apacity: 13,517 gallons



Existing down spout flow



Proposed down spout flow

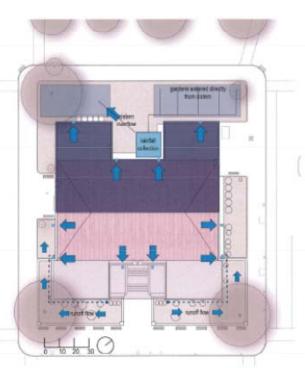


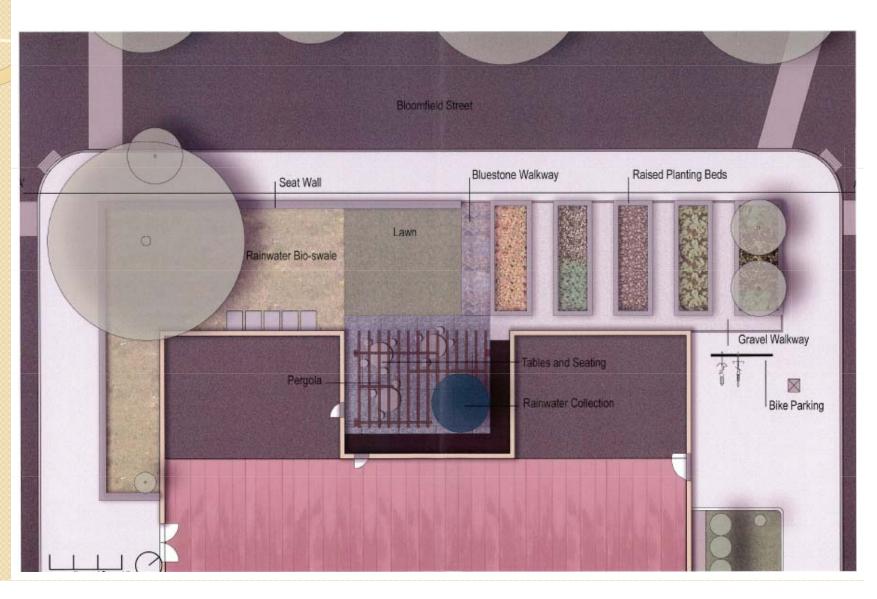






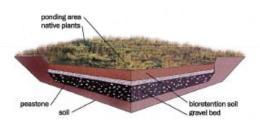






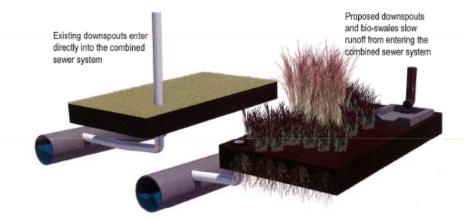


se Plants to Absorb Rainwater icreases Infiltration educe Total Runoff



Bioretention swales:

Reduces stormwater runoff volume and flow rate -increases groundwater infiltration and recharge -Designed to convey minor floods -removes sediment from stormwater runoff -increases pedestrian city experience







Global Green USA

- Technical assistance grant to advance the city's sustainability and resiliency goals
- Funded by US EPA's
 Building Blocks for
 Sustainable
 Communities Program.
- Two communities chosen (Hoboken and Richmond Hills neighborhood on Staten Island)



Rockefeller Foundation









- Re.investinitative.org
- \$2 million to assist 8
 cities design and
 finance green
 infrastructure
- RockefellerFoundationCentennial Challenge
- \$100 million for 100 cities

THANK YOU!

STEPHEN MARKS

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